

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113002 A1

(51) International Patent Classification⁷: **B23C 41/04**
// 1/00, 3/00

(21) International Application Number:
PCT/SE2004/001036

(22) International Filing Date: 28 June 2004 (28.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/481,026 26 June 2003 (26.06.2003) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

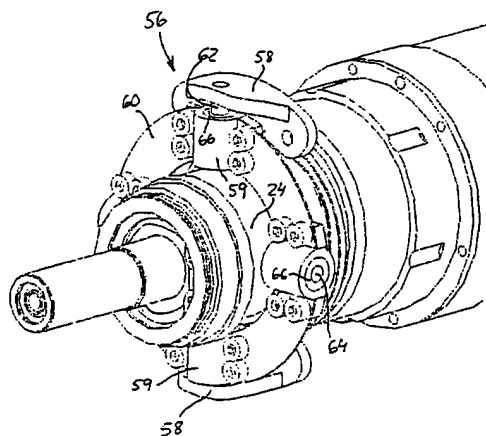
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: ORBITAL MACHINING APPARATUS WITH DRIVE ELEMENT WITH DRIVE PINS



(57) Abstract: An orbital machining apparatus for producing a hole in a workpiece by means of a cutting tool comprising a first actuator configured for rotating the cutting tool about its longitudinal center axis during the machining of the hole; a second actuator configured for moving the cutting tool in an axial feed direction substantially parallel to said tool axis; a third actuator configured for rotating the cutting tool about a principal axis; and a radial offset mechanism configured for controlling the radial distance of the center axis of the cutting tool from said principal axis. The third actuator includes a rotating drive element (57) driven by an individual motor, a carrier ring (60) connected to and rotated by the drive element (57) by means of two diametrically opposed, radial drive pins (62) such that the carrier ring (60) may perform a radial sliding movement relative to the drive element (57) while being rotated thereby, and two diametrically opposed, radial carrier guide shafts (64) circumferentially spaced 90 from the drive pins (62) and connecting the carrier ring (60) and an inner cylindrical eccentric body such that the latter may perform a radial sliding movement relative to the carrier ring while being rotated thereby.